Available online at www.sciencedirect.cc

SCIENCE DIRECT®

ELSEVIER

Journal of Organometallic Chemistry 687 (2003) 575–576

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Author Index of Volume 687

Ahlgrén, M., 538
Aleksandrov, G.G., 451
Alt, H.G., 142
Ananikov, V.P., 451
Arai, M., 211
Arcadi, A., 562
Arve, L., 249

Babić, D., 85
Bäckvall, J.-E., 508
Baillie, C., 301
Balme, G., 466
Bardella, V., 209
Bassindale, A.R., 1
Beletskaya, I.P., 451
Beller, M., 403
Benetollo, F., 161
Bhanage, B.M., 211
Boglio, C., 337
Bohan, H., 178
Bolm, C., 444
Bouquillon, S., 377
Bouyssi, D., 466
Branchadell, V., 337
Bruyère, D., 466
Bubnov, Y.N., 108
Bumbu, O., 118
Buñuel, E., 410
Butković, V., 85

Cacchi, S., 562
Cai, M., 462
Calhorda, M.J., 57
Campagne, J.-M., 322
Cantat, T., 365
Cao, F., 27
Cárdenas, D.J., 410
Carpenter, G.B., 78
Catellani, M., 473
Chantson, J., 39
Chen, J.-X., 197
Chengebroyen, J., 313
Chiusoli, G.P., 219
Cho, M.-S., 27
Cisneros, G.A., 498
Cleghorn, L.A.T., 483
Coletto, L., 161
Commandeur, C., 337
Cooper, I.R., 483
Corey, M., 178
Costa, M., 219
Costa, P.M.F.J., 57
Ćurić, M., 85

Darses, S., 209

Deacon, P.R., 46
Deledda, S., 473
de Meijere, A., 249
de Vries, A.H.M., 494
de Vries, J.G., 494
Devylder, N., 46
Doucet, H., 327
Drake, J.E., 118
Drew, M.G.B., 57

Eberhard, M.R., 185
Echavarren, A.M., 410
Enders, M., 125
Eremenko, I.L., 451
Erker, G., 171
Eskander, M., 178

Fabrizi, G., 562
Félix, V., 57
Fernández, P., 125
Ferreira, P., 57
Feuerstein, M., 327
Fiaud, J.-C., 353
Fiedler, J., 100
Fishwick, C.W.G., 483
Framery, E., 384
Frisch, A.C., 403
Fröhlich, R., 171
Fugami, K., 567
Fujita, S.-i., 211

Gabriele, B., 219
Ganchegui, B., 473
Génin, E., 365
Giambastiani, G., 291
Giguere, J., 178
Giroud, C., 365
Goj, L.A., 498
Görls, H., 39, 153
Gouriou, L., 525
Goux-Henry, C., 384
Gozzi, C., 280
Grasa, G.A., 269
Grigg, R., 483
Guiry, P.J., 545

Halbes-Létinois, U., 420
Hannu-Kuure, M.S., 538
Hartmann, H., 100
Hassan, J., 280
Hénin, F., 377, 473
Herrick, R.S., 178
Herrmann, W.A., 229
Hill, M.S., 46
Hirose, T., 392

Hirunuma, Y., 567
Hiyama, T., 570
Hong, L.-Y., 27
Horton, P.N., 1
Humbel, S., 377
Hung, C.-H., 16
Hursthouse, M.B., 1, 118
Hwang, W.-S., 16

Imakuni, N., 392
Inoue, Y., 436
Iourtchenko, A., 384
Ishiyama, T., 284
Izumi, T., 12

Jensen, C.M., 185
Jutand, A., 365

Kabeshov, M.A., 451
Kadnikov, D.V., 425
Kaim, W., 100
Kálmán, A., 33
Kameyama, M., 567
Kamon, A., 284
Kataeva, O., 171
Kehr, G., 171
Kiely, D., 545
Kijima, T., 12
Kim, B.-H., 27
Kim, D.-J., 27
Kim, D.-P., 27
Kinoshita, M., 33
Klimkina, E.V., 108
Knoke, M., 249
Kočovský, P., 256, 525
Kolodziuk, R., 384
Kosugi, M., 567
Koyama, D., 567
K. Sahoo, A., 570
Kumar, P., 190

Lacroix, F., 69
Laitinen, R.S., 538
Lang, J.-P., 197
Larock, R.C., 425
Legros, J.-Y., 353
Lemaire, M., 280
Lemaire, S., 291
Leong, W.K., 203
Létinois-Halbes, U., 377
Li, H.-X., 197
Li, X.-D., 27
Li, Y., 12
Licht, A.I., 142
Light, M.E., 1, 118

Elsevier B.V.
doi:10.1016/S0022-328X(03)01098-2

Linke, M., 313
Liu, F.-C., 69
Liu, S., 69
Liu, Z., 1
Lloyd-Jones, G.C., 525
Lotz, S., 39
Lum, M.W., 203

MacLachlan, W.S., 483
Madec, D., 291
Mahon, M.F., 46
Malacria, M., 337
Marinelli, F., 562
Marinetti, A., 209
Marinić, Ž., 85
Martin-Matute, B., 410
Matsukawa, S., 185
Matthias Wiegand, J., 346
McMicken, N., 178
Méndez, M., 410
Merzweiler, K., 131
Meyer, G., 365
Meyers, E.A., 69
Michelet, V., 209
Mihan, S., 125
Milius, W., 108
Miyaura, N., 284
Mo, J., 301
Molloy, K.C., 46
Monteiro, N., 466
Mora, M., 57
Moreau, X., 322
Moreno-Mañas, M., 337
Mori, M., 392
Mori, W., 33
Motti, E., 473
Mulders, J.M.C.A., 494
Muzart, J., 377, 473

Available online at www.sciencedirect.com
SCIENCE DIRECT
ELSEVIER
Journal of Organometallic Chemistry 687 (2003) 577–585
Journal of Organometallic Chemistry
www.elsevier.com/locate/jorganchem

Subject Index of Volume 687

Acetylenes
Pd–Ag catalyzed selective dicoupling of α-trialkylsilyl α,ω-diynes; the first one-pot synthesis of dienediynes, 420
Addition–elimination
Palladium-catalyzed novel addition–elimination reaction of alkenyltin reagents to norbornene, 567
Addition to alkynes
Mechanistic study of palladium catalyzed S–S and Se–Se bonds addition to alkynes, 451
Additive
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Aldehydes
Three-component bimetallic (Pd/In) mediated cascade allylation of C=X functionality: Part 1. Scope and Class 1 examples with aldehydes and ketones, 483
Alkoxide-bridged complexes
Preparation and characterization of some structural variants of Cp*Ti(1,2-propandiolato) complexes, 171
Alkoxysilane
The reactions of dialkyl and diarylethoxysilanes with T_6 silsesquioxane cages: X-ray crystallographic studies of the mono-T_6D_1 and bis-T_6D_2 insertion ring expansion products, 1
Alkyl chlorides
First Kumada reaction of alkyl chlorides using *N*-heterocyclic carbene/palladium catalyst systems, 403
α-Alkyl-substituted styrenes
Pd-catalyzed selective tandem arylation–alkylation of 1,1-dihalo-1-alkenes with aryl- and alkylzinc derivatives to produce α-alkyl-substituted styrene derivatives, 518
Alkynes
Palladium-catalyzed reaction of aryl iodides with *tertiary* propargylic amides: Highly substituted allenes through a regioselective carbopalladation/β-NPd elimination reaction, 562
Recent developments in the synthesis of heterocyclic derivatives by PdI_2-catalyzed oxidative carbonylation reactions, 219
Allenes
Palladium-catalyzed reaction of aryl iodides with *tertiary* propargylic amides: Highly substituted allenes through a regioselective carbopalladation/β-NPd elimination reaction, 562
Palladium-mediated intramolecular C–N bond formation involving allyl substituted pyridines. Application to a novel strategy for the synthesis of the skeleton of berberinium derivatives, 313
Allyl complex
Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions, 365
Allyl complexes
Mono- and binuclear bipyridyl derivatives of the $Mo(\eta^3\text{-}C_3H_5)(CO)_2$ fragment: structural studies and fluxionality in solution, 57
Allylic alcohols
A new catalytic method for the synthesis of selectively substituted biphenyls containing an oxoalkyl chain, 473
Allylic substitution
Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions, 365
Allyl stannanes
Allyl stannanes as electrophiles or nucleophiles in the palladium-catalyzed reactions with alkynes, 410
Amino acid
Preparation and characterization of molybdenum and tungsten compounds with diazabutadiene ligands constructed from amino esters and glyoxal: Crystal structures of meso and C_2-symmetric isomers of $Mo(CO)_4$(dab-asp(OMe)-OMe), 178
β-Amino Alcohols
Recent developments in the synthesis of heterocyclic derivatives by PdI_2-catalyzed oxidative carbonylation reactions, 219
Annulation
Palladium-catalyzed carbonylative annulation of terminal alkynes: synthesis of coumarins and 2-quinolones, 425
Aromatic arylation
A new catalytic method for the synthesis of selectively substituted biphenyls containing an oxoalkyl chain, 473
Aryl- and alkylzincs
Pd-catalyzed selective tandem arylation–alkylation of 1,1-dihalo-1-alkenes with aryl- and alkylzinc derivatives to produce α-alkyl-substituted styrene derivatives, 518
Arylation
Palladium-catalyzed intramolecular α-arylation of sulfoximines, 444
Arylation–alkylation
Pd-catalyzed selective tandem arylation–alkylation of 1,1-dihalo-1-alkenes with aryl- and alkylzinc derivatives to produce α-alkyl-substituted styrene derivatives, 518
Arylboronic acids
Efficient coupling of heteroaryl halides with arylboronic acids in the presence of a palladium–tetraphosphine catalyst, 327
Aryl bromide
Triallyl(aryl)silanes serve as a convenient agent for silicon-based cross-coupling reaction of aryl halides, 570
Aryl iodide
Double carbonylation of aryl iodides with diethylamine catalyzed by dinuclear palladium complexes, 436
Triallyl(aryl)silanes serve as a convenient agent for silicon-based cross-coupling reaction of aryl halides, 570
Asymmetric catalysis
^{2}H-quadrupolar coupling-based analysis of stereochemical and regiochemical memory in the Pd-catalysed allylic alkylation of *iso*-cinnamyl type substrates employing the chiral monophosphine ligands 'MOP' and 'MAP', 525
New chiral diamide ligands containing redox-active hydroquinone groups. Synthesis and results in the palladium(II)-catalyzed 1,4-diacetoxylation of 1,3-dienes, 508
New developments in the Pd-catalysed cyclisation-coupling reaction of alkene-containing carbonucleophiles with organic halides (and triflates). The first examples of asymmetric catalysis., 466

Elsevier B.V.
doi:10.1016/S0022-328X(03)01096-9

Palladium complexes of phosphinamine ligands in the intramolecular asymmetric Heck reaction, 545
Azobenzenes
Synthesis and characterisation of Pd(II) complexes with a derivative of aminoazobenzene: Dynamic ^{1}H-NMR study of cyclopalladation reactions in DMF, 85

Benzofuran
Palladium-catalyzed benzylic-like nucleophilic substitution of benzofuran-, benzothiophene- and indole-based substrates by dimethyl malonate anion, 353
Benzothiophene
Palladium-catalyzed benzylic-like nucleophilic substitution of benzofuran-, benzothiophene- and indole-based substrates by dimethyl malonate anion, 353
Benzylic-like nucleophilic substitution
Palladium-catalyzed benzylic-like nucleophilic substitution of benzofuran-, benzothiophene- and indole-based substrates by dimethyl malonate anion, 353
Berberiniums
Palladium-mediated intramolecular C–N bond formation involving allyl substituted pyridines. Application to a novel strategy for the synthesis of the skeleton of berberinium derivatives, 313
Bimetallic
Three-component bimetallic (Pd/In) mediated cascade allylation of C=X functionality: Part 1. Scope and Class 1 examples with aldehydes and ketones, 483
Binuclear complexes
Mono- and binuclear bipyridyl derivatives of the Mo(η^3-C_3H_5)$(CO)_2$ fragment: structural studies and fluxionality in solution, 57
Biphasic catalysis
Heck reactions with various types of palladium complex catalysts: application of multiphase catalysis and supercritical carbon dioxide, 211
Bipyridyl complexes
Mono- and binuclear bipyridyl derivatives of the Mo(η^3-C_3H_5)$(CO)_2$ fragment: structural studies and fluxionality in solution, 57
Bismetallation
Further studies on palladium-catalyzed bismetallative cyclization of enynes in the presence of $Bu_3SnSiMe_3$, 392
Bis(pinacolato)diboron
Palladium-catalyzed cross-coupling reaction of bis(pinacolato)diboron with vinyl triflates β-substituted by a carbonyl group: efficient synthesis of β-boryl-α,β-unsaturated carbonyl compounds and their synthetic utility, 284
Bis(trialkylstannyl)ethyne
Reactivity of 1-boraadamantanes towards bis(trialkylstannyl)ethynes. First examples of 3-boratricyclo[5.3.1.1^{3,9}]dodecanes, and the molecular structure of a tetraalkyldiboroxane, 108
B-nor-estradiol
Synthesis of enantiopure B-nor-steroids by multiple Pd-catalyzed transformations, 346
1-Boraadamantane
Reactivity of 1-boraadamantanes towards bis(trialkylstannyl)ethynes. First examples of 3-boratricyclo[5.3.1.1^{3,9}]dodecanes, and the molecular structure of a tetraalkyldiboroxane, 108
Bridging ligand
Nickel(II) complexes of the type [RM(oxam)MR] (oxam: oxalamidinate, R=*n*-butyl, *n*-hexyl): the first binuclear *n*-alkyl nickel complexes, 153

Cage expansion
The reactions of dialkyl and diarylethoxysilanes with T_6 silsesquioxane cages: X-ray crystallographic studies of the mono-T_6D_1 and bis-T_6D_2 insertion ring expansion products, 1
Calculations
The silicon effect on the regioselectivity of the Tsuji-Trost reaction. Experimental and theoretical approaches, 337
Carbenes
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Carbocyclisations
New developments in the Pd-catalysed cyclisation-coupling reaction of alkene-containing carbonucleophiles with organic halides (and triflates). The first examples of asymmetric catalysis., 466
Carbohydrate
Palladium-catalyzed Suzuki cross-coupling of aryl halides with aryl boronic acids in the presence of glucosamine-based phosphines, 384
Carbon monoxide
Double carbonylation of aryl iodides with diethylamine catalyzed by dinuclear palladium complexes, 436
Palladium-catalyzed carbonylative annulation of terminal alkynes: synthesis of coumarins and 2-quinolones, 425
Carbonylation
Recent developments in the synthesis of heterocyclic derivatives by PdI_2-catalyzed oxidative carbonylation reactions, 219
Carbosilanes
Novel pentacoordinate silicon compounds bearing [Si-N-C-N-C-N] chelate ring derived from biguanide ligands, 190
Cascade allylation
Three-component bimetallic (Pd/In) mediated cascade allylation of C=X functionality: Part 1. Scope and Class 1 examples with aldehydes and ketones, 483
Cascade reactions
Palladium-catalyzed cross-coupling reactions and electrocyclizations—efficient combinations for new cascade reactions, 249
Catalysis
A new catalytic method for the synthesis of selectively substituted biphenyls containing an oxoalkyl chain, 473
Palladium-catalyzed intramolecular α-arylation of sulfoximines, 444
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Catalyst activation
Quinolyl-functionalised Cp–chromium polymerisation catalysts: synthesis and crystal structures of alkylation products, 125
Catalytic reaction
Mechanistic study of palladium catalyzed S–S and Se–Se bonds addition to alkynes, 451
C–C bond formation
Palladium-catalyzed benzylic-like nucleophilic substitution of benzofuran-, benzothiophene- and indole-based substrates by dimethyl malonate anion, 353
CC-coupling
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Ceramic residue yield
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
CH activation
Insertion of Pt into CH and CS bonds of thiophene derivatives. The X-ray crystal structure of a thiaplatinacycle of 3,6-dimethylthieno[3,2-*b*]thiophene, 39
Characterization
Preparation and characterization of some structural variants of Cp*Ti(1,2-propandiolato) complexes, 171
Chirality
trans-Bis-[(−)ephedrinate]-palladium^{II} complex: synthesis, molecular modeling and use as catalyst, 377

Chiral ligand
Preparation and characterization of molybdenum and tungsten compounds with diazabutadiene ligands constructed from amino esters and glyoxal: Crystal structures of meso and C_2-symmetric isomers of $Mo(CO)_4$(dab-asp(OMe)-OMe), 178
Chloride ions
Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions, 365
Chromium
Quinolyl-functionalised Cp–chromium polymerisation catalysts: synthesis and crystal structures of alkylation products, 125
Clusters
Reactions of the triosmium cluster $Os_3(\mu\text{-}H)(\mu\text{-}OH)(CO)_{10}$ with naphthols, 203
C–N bond formation
Palladium-mediated intramolecular C–N bond formation involving allyl substituted pyridines. Application to a novel strategy for the synthesis of the skeleton of berberinium derivatives, 313
CN-coupling
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Combinatorial chemistry
Palladium-catalyzed cross-coupling reactions and electrocyclizations—efficient combinations for new cascade reactions, 249
Complexes
Novel unsymmetrical PCP′ pincer ligands and their palladium(II) complexes, 185
Copper cluster
Stepwise addition of CuBr at $[(dtc)_2Mo_2(S)_2(\mu\text{-}S)_2]$ (dtc=diethyldithiocarbamate): syntheses and crystal structures of two Mo/Cu/S clusters $[(dtc)_2Mo_2(\mu_3\text{-}S)(\mu\text{-}S)_3(CuBr)]$ and $[(dtc)_2Mo_2(\mu_3\text{-}S)_4(CuBr)_2]$, 197
Coupling–dimerization
Ruthenium-catalyzed carbon–carbon formation to synthesize tetraarylethanes and tetraarylxylylene through dechlorinative dimeric reaction, 12
Coupling reactions
Palladium-catalyzed coupling reactions of bromo-substituted phenylphosphine oxides: a facile route to functionalized arylphosphine ligands, 301
Pd–Ag catalyzed selective dicoupling of α-trialkylsilyl α,ω-diynes; the first one-pot synthesis of dienediynes, 420
Cp*Ti(1,2-propandiolato)
Preparation and characterization of some structural variants of Cp*Ti(1,2-propandiolato) complexes, 171
Cross-coupling
Palladium-catalyzed cross-coupling reaction of bis(pinacolato)diboron with vinyl triflates β-substituted by a carbonyl group: efficient synthesis of β-boryl-α,β-unsaturated carbonyl compounds and their synthetic utility, 284
Cross coupling
Palladium-catalyzed cross-coupling reactions and electrocyclizations—efficient combinations for new cascade reactions, 249
Cross-coupling
Triallyl(aryl)silanes serve as a convenient agent for silicon-based cross-coupling reaction of aryl halides, 570
Cross-coupling reaction
Stereoselective synthesis of 1,3-dienylstannanes by palladium catalyzed cross-coupling reactions, 462
Cross-linking
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Crystal structure
Formation and structural characterization of novel polynuclear palladium selenolato complexes $[Pd_3Se(SePh)_3(PPh_3)_3]Cl$ and $[Pd_6Cl_2Se_4(SePh)_2(PPh_3)_6]$, 538
Insertion of Pt into CH and CS bonds of thiophene derivatives. The X-ray crystal structure of a thiaplatinacycle of 3,6-dimethylthieno[3,2-*b*]thiophene, 39
Crystal structures
Ligand behaviour of P-functionally substituted organotin halides: palladium(II) and platinum(II) complexes with $Ph_2PCH_2CH_2SnCl_3$, 131
Mono- and binuclear bipyridyl derivatives of the $Mo(\eta^3\text{-}C_3H_5)(CO)_2$ fragment: structural studies and fluxionality in solution, 57
Phenylmercury(II) derivatives of tetraorganodichalcogenoimidodiphosphorus acids. Crystal and molecular structure of $[PhHg\{(OPR_2)(SPPh_2)N\}]_2$ (R=Me, Ph), 118
Preparation and characterization of molybdenum and tungsten compounds with diazabutadiene ligands constructed from amino esters and glyoxal: Crystal structures of meso and C_2-symmetric isomers of $Mo(CO)_4$(dab-asp(OMe)-OMe), 178
Stepwise addition of CuBr at $[(dtc)_2Mo_2(S)_2(\mu\text{-}S)_2]$ (dtc=diethyldithiocarbamate): syntheses and crystal structures of two Mo/Cu/S clusters $[(dtc)_2Mo_2(\mu_3\text{-}S)(\mu\text{-}S)_3(CuBr)]$ and $[(dtc)_2Mo_2(\mu_3\text{-}S)_4(CuBr)_2]$, 197
CS activation
Insertion of Pt into CH and CS bonds of thiophene derivatives. The X-ray crystal structure of a thiaplatinacycle of 3,6-dimethylthieno[3,2-*b*]thiophene, 39
Curing
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Cyclic voltammetry
Nickel(II) complexes of the type [RM(oxam)MR] (oxam: oxalamidinate, R=*n*-butyl, *n*-hexyl): the first binuclear *n*-alkyl nickel complexes, 153
Cyclization
Further studies on palladium-catalyzed bismetallative cyclization of enynes in the presence of $Bu_3SnSiMe_3$, 392
Palladium-catalyzed intramolecular α-arylation of sulfoximines, 444
Cyclometallated diiron complexes
Reactions of *N*-(2-thienylmethylidene)-2-thienylmethylamine derivatives with diiron nonacarbonyl: characterization and structures of cyclometallated diiron complexes $Fe_2(CO)_6(RC_4HSCH_2NCH_2C_4H_3S)$ and linear tetrairon clusters $Fe_4(CO)_{10}(RC_4HSCHNCH_2C_4H_3S)_2$, 16
Cyclopalladated complexes
Palladium-mediated intramolecular C–N bond formation involving allyl substituted pyridines. Application to a novel strategy for the synthesis of the skeleton of berberinium derivatives, 313
Cyclopalladation
Synthesis and characterisation of Pd(II) complexes with a derivative of aminoazobenzene: Dynamic ^{1}H-NMR study of cyclopalladation reactions in DMF, 85

Dechlorination
Ruthenium-catalyzed carbon–carbon formation to synthesize tetraarylethanes and tetraarylxylylene through dechlorinative dimeric reaction, 12
Dehydrocoupling
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Density functional theory (DFT)
trans-Bis-[(−)ephedrinate]-palladium^{II} complex: synthesis, molecular modeling and use as catalyst, 377
Diazabutadienes
Catalytic activity of Pd(II) and Pd(II)/DAB-R systems for the Heck arylation of olefins, 269

Diene cycloisomerization
Dramatic effect of homoallylic substitution on the rate of palladium-catalyzed diene cycloisomerization, 498
Dienediynes
Pd–Ag catalyzed selective dicoupling of α-trialkylsilyl α,ω-diynes; the first one-pot synthesis of dienediynes, 420
Dienes
New chiral diamide ligands containing redox-active hydroquinone groups. Synthesis and results in the palladium(II)-catalyzed 1,4-diacetoxylation of 1,3-dienes, 508
1,3-Dienylstannane
Stereoselective synthesis of 1,3-dienylstannanes by palladium catalyzed cross-coupling reactions, 462
1,1-Dihalo-1-alkenes
Pd-catalyzed selective tandem arylation–alkylation of 1,1-dihalo-1-alkenes with aryl- and alkylzinc derivatives to produce α-alkyl-substituted styrene derivatives, 518
Diimine
Preparation and characterization of molybdenum and tungsten compounds with diazabutadiene ligands constructed from amino esters and glyoxal: Crystal structures of meso and C_2-symmetric isomers of $Mo(CO)_4$(dab-asp(OMe)-OMe), 178
Diiron nonacarbonyl
Reactions of *N*-(2-thienylmethylidene)-2-thienylmethylamine derivatives with diiron nonacarbonyl: characterization and structures of cyclometallated diiron complexes $Fe_2(CO)_6(RC_4HSCH_2NCH_2C_4H_3S)$ and linear tetrairon clusters $Fe_4(CO)_{10}(RC_4HSCHNCH_2C_4H_3S)_2$, 16
Dinuclear palladium complexes
Double carbonylation of aryl iodides with diethylamine catalyzed by dinuclear palladium complexes, 436
1,2-Diones
Three-component bimetallic (Pd/In) mediated cascade allylation of C=X functionality: Part 1. Scope and Class 1 examples with aldehydes and ketones, 483
Donor-functionalised Cp-ligands
Quinolyl-functionalised Cp–chromium polymerisation catalysts: synthesis and crystal structures of alkylation products, 125
Double carbonylation
Double carbonylation of aryl iodides with diethylamine catalyzed by dinuclear palladium complexes, 436
Dynamics
Synthesis and characterisation of Pd(II) complexes with a derivative of aminoazobenzene: Dynamic ^{1}H-NMR study of cyclopalladation reactions in DMF, 85

Electronic communication
Nickel(II) complexes of the type [RM(oxam)MR] (oxam: oxalamidinate, R=*n*-butyl, *n*-hexyl): the first binuclear *n*-alkyl nickel complexes, 153
Electron transfer
Electron transfer reactions of $(C_5R_5)_2(CO)_2Ti$ (R=H or Me) with TCNE or TCNQ: Spectroelectrochemical assignment of metal and ligand oxidation states in $[(C_5Me_5)_2(CO)Ti(TCNX)]^{2-/-/0/+}$, 100
Electrophiles
Allyl stannanes as electrophiles or nucleophiles in the palladium-catalyzed reactions with alkynes, 410
Enyne
Further studies on palladium-catalyzed bismetallative cyclization of enynes in the presence of $Bu_3SnSiMe_3$, 392
Ephedrine
trans-Bis-[(−)ephedrinate]-palladium^{II} complex: synthesis, molecular modeling and use as catalyst, 377

Formation
Formation and structural characterization of novel polynuclear palladium selenolato complexes $[Pd_3Se(SePh)_3(PPh_3)_3]Cl$ and $[Pd_6Cl_2Se_4(SePh)_2(PPh_3)_6]$, 538

Group IV metallocene
Cyclic organohydroborate complexes of metallocenes: VIII. Triphenylsiloxy derivatives of Group IV organometallic systems, $Cp_2M(OSiPh_3)X$ (M=Ti, Zr, Hf; X=Cl, $\{(\mu\text{-}H)_2BC_8H_{14}\}$), 69

Halide
Palladium-catalyzed novel addition–elimination reaction of alkenyltin reagents to norbornene, 567
Heck
Ligand-free palladium catalysed Heck reaction of methyl 2-acetamido acrylate and aryl bromides as key step in the synthesis of enantiopure substituted phenylalanines, 494
Heck coupling
Catalytic activity of Pd(II) and Pd(II)/DAB-R systems for the Heck arylation of olefins, 269
Palladium-catalyzed pseudo-domino cyclizations: An easy entry toward polycondensed pyrrolidone derivatives, 291
Heck-reaction
Synthesis of enantiopure B-nor-steroids by multiple Pd-catalyzed transformations, 346
Heck reaction
A new catalytic method for the synthesis of selectively substituted biphenyls containing an oxoalkyl chain, 473
Heck reactions with various types of palladium complex catalysts: application of multiphase catalysis and supercritical carbon dioxide, 211
Palladium-catalyzed novel addition–elimination reaction of alkenyltin reagents to norbornene, 567
Heck-type and Ullmann-type reactions
Palladium-catalyzed coupling reactions towards the synthesis of well-defined thiophene-oligomers, 280
Herrmann–Bellar phosphapalladacycle
Palladium-catalyzed pseudo-domino cyclizations: An easy entry toward polycondensed pyrrolidone derivatives, 291
Heteroaryl halides
Efficient coupling of heteroaryl halides with arylboronic acids in the presence of a palladium–tetraphosphine catalyst, 327
Heterocycles
Recent developments in the synthesis of heterocyclic derivatives by PdI_2-catalyzed oxidative carbonylation reactions, 219
Heterocyles
Palladium-mediated intramolecular C–N bond formation involving allyl substituted pyridines. Application to a novel strategy for the synthesis of the skeleton of berberinium derivatives, 313
Hexacoordination
Ligand behaviour of P-functionally substituted organotin halides: palladium(II) and platinum(II) complexes with $Ph_2PCH_2CH_2SnCl_3$, 131
^{2}H-NMR
^{2}H-quadrupolar coupling-based analysis of stereochemical and regiochemical memory in the Pd-catalysed allylic alkylation of *iso*-cinnamyl type substrates employing the chiral monophosphine ligands 'MOP' and 'MAP', 525
^{1}H-NMR study
Synthesis and characterisation of Pd(II) complexes with a derivative of aminoazobenzene: Dynamic ^{1}H-NMR study of cyclopalladation reactions in DMF, 85
Homoallylic substitution
Dramatic effect of homoallylic substitution on the rate of palladium-catalyzed diene cycloisomerization, 498
Hydroarylation
Palladium-catalyzed reaction of aryl iodides with *tertiary* propargylic amides: Highly substituted allenes through a regioselective carbopalladation/β-NPd elimination reaction, 562

Hydrogen-bonded networks
Hydrogen-bonded networks from η^5-semiquinone complexes of manganese tricarbonyl, 78
Hypercoordination
X-ray crystallographic study of some pentacoordinated organogermanium compounds, 33

Indole
Palladium-catalyzed benzylic-like nucleophilic substitution of benzofuran-, benzothiophene- and indole-based substrates by dimethyl malonate anion, 353
Insertion reaction
The reactions of dialkyl and diarylethoxysilanes with T_6 silsesquioxane cages: X-ray crystallographic studies of the mono-T_6D_1 and bis-T_6D_2 insertion ring expansion products, 1
Intramolecular Heck reaction
Palladium complexes of phosphinamine ligands in the intramolecular asymmetric Heck reaction, 545

Kinetics
Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions, 365

Ligand design
New chiral diamide ligands containing redox-active hydroquinone groups. Synthesis and results in the palladium(II)-catalyzed 1,4-diacetoxylation of 1,3-dienes, 508
Ligand-free
Ligand-free palladium catalysed Heck reaction of methyl 2-acetamido acrylate and aryl bromides as key step in the synthesis of enantiopure substituted phenylalanines, 494
Linear tetrairon clusters
Reactions of *N*-(2-thienylmethylidene)-2-thienylmethylamine derivatives with diiron nonacarbonyl: characterization and structures of cyclometallated diiron complexes $Fe_2(CO)_6(RC_4HSCH_2NCH_2C_4H_3S)$ and linear tetrairon clusters $Fe_4(CO)_{10}(RC_4HSCHNCH_2C_4H_3S)_2$, 16
Liquid crystals
^{2}H-quadrupolar coupling-based analysis of stereochemical and regiochemical memory in the Pd-catalysed allylic alkylation of *iso*-cinnamyl type substrates employing the chiral monophosphine ligands 'MOP' and 'MAP', 525

Manganese
Hydrogen-bonded networks from η^5-semiquinone complexes of manganese tricarbonyl, 78
Mechanism
Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions, 365
Memory effects
^{2}H-quadrupolar coupling-based analysis of stereochemical and regiochemical memory in the Pd-catalysed allylic alkylation of *iso*-cinnamyl type substrates employing the chiral monophosphine ligands 'MOP' and 'MAP', 525
Mesogen
Organotin compounds bearing mesogenic sidechains: synthesis, X-ray structures and polymerisation chemistry, 46
Methodology
Palladium catalyzed thiol cross-coupling of cystein derivatives with aryl and alkenyl halides, 322
Microwave
Synthesis of enantiopure B-nor-steroids by multiple Pd-catalyzed transformations, 346
Molybdenum
Mono- and binuclear bipyridyl derivatives of the $Mo(\eta^3\text{-}C_3H_5)(CO)_2$ fragment: structural studies and fluxionality in solution, 57
Preparation and characterization of molybdenum and tungsten compounds with diazabutadiene ligands constructed from amino esters and glyoxal: Crystal structures of meso and C_2-symmetric isomers of $Mo(CO)_4$(dab-asp(OMe)-OMe), 178
Molybdenum cluster
Stepwise addition of CuBr at $[(dtc)_2Mo_2(S)_2(\mu\text{-}S)_2]$ (dtc=diethyldithiocarbamate): syntheses and crystal structures of two Mo/Cu/S clusters $[(dtc)_2Mo_2(\mu_3\text{-}S)(\mu\text{-}S)_3(CuBr)]$ and $[(dtc)_2Mo_2(\mu_3\text{-}S)_4(CuBr)_2]$, 197
Monocyclopentadienyl ligands
Synthesis and characterization of Zr(IV) and Y(III) complexes with monocyclopentadienyl ligands containing an additional site tethered by a coordinating 2,6-pyridine bridge. X-ray crystal structures of the zirconium complexes, 161
MonoPhos
Ligand-free palladium catalysed Heck reaction of methyl 2-acetamido acrylate and aryl bromides as key step in the synthesis of enantiopure substituted phenylalanines, 494
Mössbauer
Organotin compounds bearing mesogenic sidechains: synthesis, X-ray structures and polymerisation chemistry, 46

Naphthol
Reactions of the triosmium cluster $Os_3(\mu\text{-}H)(\mu\text{-}OH)(CO)_{10}$ with naphthols, 203
N-heterocyclic carbene
Further studies on palladium-catalyzed bismetallative cyclization of enynes in the presence of $Bu_3SnSiMe_3$, 392
N-heterocyclic carbenes
First Kumada reaction of alkyl chlorides using *N*-heterocyclic carbene/palladium catalyst systems, 403
Nickel
Nickel(II) complexes of the type [RM(oxam)MR] (oxam: oxalamidinate, R=*n*-butyl, *n*-hexyl): the first binuclear *n*-alkyl nickel complexes, 153
NMR spectroscopy
Ligand behaviour of P-functionally substituted organotin halides: palladium(II) and platinum(II) complexes with $Ph_2PCH_2CH_2SnCl_3$, 131
NMR, X-ray
Reactivity of 1-boraadamantanes towards bis(trialkylstannyl)ethynes. First examples of 3-boratricyclo[5.3.1.1^{3,9}]dodecanes, and the molecular structure of a tetraalkyldiboroxane, 108
Nucleophiles
Allyl stannanes as electrophiles or nucleophiles in the palladium-catalyzed reactions with alkynes, 410

Olefin polymerisation
Quinolyl-functionalised Cp–chromium polymerisation catalysts: synthesis and crystal structures of alkylation products, 125
1,1-Organoboration
Reactivity of 1-boraadamantanes towards bis(trialkylstannyl)ethynes. First examples of 3-boratricyclo[5.3.1.1^{3,9}]dodecanes, and the molecular structure of a tetraalkyldiboroxane, 108
Organogermanium compounds
X-ray crystallographic study of some pentacoordinated organogermanium compounds, 33
Organohydroborate
Cyclic organohydroborate complexes of metallocenes: VIII. Triphenylsiloxy derivatives of Group IV organometallic systems, $Cp_2M(OSiPh_3)X$ (M=Ti, Zr, Hf; X=Cl, $\{(\mu\text{-}H)_2BC_8H_{14}\}$), 69
Organometallic networks
Hydrogen-bonded networks from η^5-semiquinone complexes of manganese tricarbonyl, 78
Organophosphorus ligands
Phenylmercury(II) derivatives of tetraorganodichalcogenoimidodiphosphorus acids. Crystal and molecular structure of

[PhHg{(OPR$_2$)(SPPh$_2$)N}]$_2$ (R=Me, Ph), 118
Organotin
Ligand behaviour of P-functionally substituted organotin halides: palladium(II) and platinum(II) complexes with $Ph_2PCH_2CH_2SnCl_3$, 131
Organotin reagent
Palladium-catalyzed novel addition–elimination reaction of alkenyltin reagents to norbornene, 567
Osmium
Reactions of the triosmium cluster $Os_3(\mu\text{-}H)(\mu\text{-}OH)(CO)_{10}$ with naphthols, 203
Oxidation
Insertion of Pt into CH and CS bonds of thiophene derivatives. The X-ray crystal structure of a thiaplatinacycle of 3,6-dimethylthieno[3,2-*b*]thiophene, 39
New chiral diamide ligands containing redox-active hydroquinone groups. Synthesis and results in the palladium(II)-catalyzed 1,4-diacetoxylation of 1,3-dienes, 508
Oxidative Carbonylation
Recent developments in the synthesis of heterocyclic derivatives by PdI$_2$-catalyzed oxidative carbonylation reactions, 219

Palladacycles
A new catalytic method for the synthesis of selectively substituted biphenyls containing an oxoalkyl chain, 473
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Palladium
Allyl stannanes as electrophiles or nucleophiles in the palladium-catalyzed reactions with alkynes, 410
A new catalytic method for the synthesis of selectively substituted biphenyls containing an oxoalkyl chain, 473
Catalytic activity of Pd(II) and Pd(II)/DAB-R systems for the Heck arylation of olefins, 269
Efficient coupling of heteroaryl halides with arylboronic acids in the presence of a palladium–tetraphosphine catalyst, 327
Further studies on palladium-catalyzed bismetallative cyclization of enynes in the presence of $Bu_3SnSiMe_3$, 392
^{2}H-quadrupolar coupling-based analysis of stereochemical and regiochemical memory in the Pd-catalysed allylic alkylation of *iso*-cinnamyl type substrates employing the chiral monophosphine ligands 'MOP' and 'MAP', 525
Ligand-free palladium catalysed Heck reaction of methyl 2-acetamido acrylate and aryl bromides as key step in the synthesis of enantiopure substituted phenylalanines, 494
New chiral diamide ligands containing redox-active hydroquinone groups. Synthesis and results in the palladium(II)-catalyzed 1,4-diacetoxylation of 1,3-dienes, 508
New developments in the Pd-catalysed cyclisation-coupling reaction of alkene-containing carbonucleophiles with organic halides (and triflates). The first examples of asymmetric catalysis., 466
Nickel(II) complexes of the type [RM(oxam)MR] (oxam: oxalamidinate, R=*n*-butyl, *n*-hexyl): the first binuclear *n*-alkyl nickel complexes, 153
Novel unsymmetrical PCP′ pincer ligands and their palladium(II) complexes, 185
Palladium-catalyzed benzylic-like nucleophilic substitution of benzofuran-, benzothiophene- and indole-based substrates by dimethyl malonate anion, 353
Palladium-catalyzed carbonylative annulation of terminal alkynes: synthesis of coumarins and 2-quinolones, 425
Palladium-catalyzed intramolecular α-arylation of sulfoximines, 444
Palladium-catalyzed pseudo-domino cyclizations: An easy entry toward polycondensed pyrrolidone derivatives, 291
Palladium-catalyzed reaction of aryl iodides with *tertiary* propargylic amides: Highly substituted allenes through a regioselective carbopalladation/β-NPd elimination reaction, 562
Palladium catalyzed thiol cross-coupling of cystein derivatives with aryl and alkenyl halides, 322
Palladium complexes of phosphinamine ligands in the intramolecular asymmetric Heck reaction, 545
Pd–Ag catalyzed selective dicoupling of α-trialkylsilyl α,ω-diynes; the first one-pot synthesis of dienediynes, 420
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Recent developments in the synthesis of heterocyclic derivatives by PdI$_2$-catalyzed oxidative carbonylation reactions, 219
Stereoselective synthesis of 1,3-dienylstannanes by palladium catalyzed cross-coupling reactions, 462
Structural and kinetic effects of chloride ions in the palladium-catalyzed allylic substitutions, 365
Synthesis and characterisation of Pd(II) complexes with a derivative of aminoazobenzene: Dynamic ^{1}H-NMR study of cyclopalladation reactions in DMF, 85
Synthesis of enantiopure B-nor-steroids by multiple Pd-catalyzed transformations, 346
Triallyl(aryl)silanes serve as a convenient agent for silicon-based cross-coupling reaction of aryl halides, 570
Palladium acetate
Palladium-catalyzed coupling reactions towards the synthesis of well-defined thiophene-oligomers, 280
Palladium catalysis
Palladium-catalyzed coupling reactions of bromo-substituted phenylphosphine oxides: a facile route to functionalized arylphosphine ligands, 301
Palladium-catalyzed cross-coupling reactions and electrocyclizations—efficient combinations for new cascade reactions, 249
Palladium catalyst
Palladium-catalyzed cross-coupling reaction of bis(pinacolato)diboron with vinyl triflates β-substituted by a carbonyl group: efficient synthesis of β-boryl-α,β-unsaturated carbonyl compounds and their synthetic utility, 284
Palladium-catalyst
Palladium-catalyzed novel addition–elimination reaction of alkenyltin reagents to norbornene, 567
Palladium-catalyzed
Dramatic effect of homoallylic substitution on the rate of palladium-catalyzed diene cycloisomerization, 498
Palladium-catalyzed coupling
First Kumada reaction of alkyl chlorides using *N*-heterocyclic carbene/palladium catalyst systems, 403
Palladium-catalyzed reactions
Reactivity control in palladium-catalyzed reactions: a personal account, 256
Palladium complex
Mechanistic study of palladium catalyzed S–S and Se–Se bonds addition to alkynes, 451
Palladium complexes
trans-Bis-[(−)ephedrinate]-palladium^{II} complex: synthesis, molecular modeling and use as catalyst, 377
Palladium-mediated synthesis
Palladium-mediated intramolecular C–N bond formation involving allyl substituted pyridines. Application to a novel strategy for the synthesis of the skeleton of berberinium derivatives, 313
Palladium selenolato complex
Formation and structural characterization of novel polynuclear palladium selenolato complexes $[Pd_3Se(SePh)_3(PPh_3)_3]Cl$ and $[Pd_6Cl_2Se_4(SePh)_2(PPh_3)_6]$, 538
Pd-Catalyzed tandem cross-coupling
Pd-catalyzed selective tandem arylation–alkylation of 1,1-dihalo-1-

alkenes with aryl- and alkylzinc derivatives to produce α-alkyl-substituted styrene derivatives, 518
PdN bond
trans-Bis-[(−)ephedrinate]-palladium^{II} complex: synthesis, molecular modeling and use as catalyst, 377
Pentacoordination
Ligand behaviour of P-functionally substituted organotin halides: palladium(II) and platinum(II) complexes with $Ph_2PCH_2CH_2SnCl_3$, 131
Novel pentacoordinate silicon compounds bearing [Si-N-C-N-C-N] chelate ring derived from biguanide ligands, 190
Phenylmercury(II) derivatives
Phenylmercury(II) derivatives of tetraorganodichalcogenoimidodiphosphorus acids. Crystal and molecular structure of $[PhHg\{(OPR_2)(SPPh_2)N\}]_2$ (R=Me, Ph), 118
Phosphinamine ligands
Palladium complexes of phosphinamine ligands in the intramolecular asymmetric Heck reaction, 545
Phosphine
Palladium-catalyzed Suzuki cross-coupling of aryl halides with aryl boronic acids in the presence of glucosamine-based phosphines, 384
Phosphine oxides
Palladium-catalyzed coupling reactions of bromo-substituted phenylphosphine oxides: a facile route to functionalized arylphosphine ligands, 301
Phosphines
Palladium-catalyzed coupling reactions of bromo-substituted phenylphosphine oxides: a facile route to functionalized arylphosphine ligands, 301
Phospha-palladacycles and *N*-heterocyclic carbene palladium complexes: efficient catalysts for CC-coupling reactions, 229
Phosphorus
Novel unsymmetrical PCP′ pincer ligands and their palladium(II) complexes, 185
Pincer
Novel unsymmetrical PCP′ pincer ligands and their palladium(II) complexes, 185
Platinum hydrides
Insertion of Pt into CH and CS bonds of thiophene derivatives. The X-ray crystal structure of a thiaplatinacycle of 3,6-dimethylthieno[3,2-*b*]thiophene, 39
P ligands
New developments in the Pd-catalysed cyclisation-coupling reaction of alkene-containing carbonucleophiles with organic halides (and triflates). The first examples of asymmetric catalysis., 466
Polyborazine
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Polymer
Organotin compounds bearing mesogenic sidechains: synthesis, X-ray structures and polymerisation chemistry, 46
Polyphenylsilane
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Polyvinylsilane
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
Preparation
Preparation and characterization of some structural variants of Cp*Ti(1,2-propandiolato) complexes, 171
Pseudo-domino cyclizations
Palladium-catalyzed pseudo-domino cyclizations: An easy entry toward polycondensed pyrrolidone derivatives, 291
Pyrrolidone
Palladium-catalyzed pseudo-domino cyclizations: An easy entry toward polycondensed pyrrolidone derivatives, 291

Radical reaction
Ruthenium-catalyzed carbon–carbon formation to synthesize tetraarylethanes and tetraarylxylylene through dechlorinative dimeric reaction, 12
Reactivity control
Reactivity control in palladium-catalyzed reactions: a personal account, 256
Regioregular oligothiophenes
Palladium-catalyzed coupling reactions towards the synthesis of well-defined thiophene-oligomers, 280
Regioselectivity
The silicon effect on the regioselectivity of the Tsuji-Trost reaction. Experimental and theoretical approaches, 337
Ring opening
The reactions of dialkyl and diarylethoxysilanes with T_6 silsesquioxane cages: X-ray crystallographic studies of the mono-T_6D_1 and bis-T_6D_2 insertion ring expansion products, 1
Ruthenium catalyst
Ruthenium-catalyzed carbon–carbon formation to synthesize tetraarylethanes and tetraarylxylylene through dechlorinative dimeric reaction, 12

Scavenger
Palladium catalyzed thiol cross-coupling of cystein derivatives with aryl and alkenyl halides, 322
η^5-Semiquinone complexes
Hydrogen-bonded networks from η^5-semiquinone complexes of manganese tricarbonyl, 78
^{77}Se-NMR
Mechanistic study of palladium catalyzed S–S and Se–Se bonds addition to alkynes, 451
Se–Se bond activation
Mechanistic study of palladium catalyzed S–S and Se–Se bonds addition to alkynes, 451
SiC ceramic
Effect of polyborazine additive on thermolysis of polyphenylsilane and polyvinylsilane, 27
SiH/NH dehydrocoupling
Novel pentacoordinate silicon compounds bearing [Si-N-C-N-C-N] chelate ring derived from biguanide ligands, 190
Silica model
Cyclic organohydroborate complexes of metallocenes: VIII. Triphenylsiloxy derivatives of Group IV organometallic systems, $Cp_2M(OSiPh_3)X$ (M=Ti, Zr, Hf; X=Cl, $\{(\mu\text{-}H)_2BC_8H_{14}\}$), 69
Silicon effect
The silicon effect on the regioselectivity of the Tsuji-Trost reaction. Experimental and theoretical approaches, 337
Silver
Pd–Ag catalyzed selective dicoupling of α-trialkylsilyl α,ω-diynes; the first one-pot synthesis of dienediynes, 420
Silylbiguanides
Novel pentacoordinate silicon compounds bearing [Si-N-C-N-C-N] chelate ring derived from biguanide ligands, 190
Silylstannane
Further studies on palladium-catalyzed bismetallative cyclization of enynes in the presence of $Bu_3SnSiMe_3$, 392
Small rings
Palladium-catalyzed cross-coupling reactions and electrocyclizations—efficient combinations for new cascade reactions, 249
Spectroelectrochemistry
Electron transfer reactions of $(C_5R_5)_2(CO)_2Ti$ (R=H or Me) with TCNE or TCNQ: Spectroelectrochemical assignment of metal and ligand oxidation states in $[(C_5Me_5)_2(CO)Ti(TCNX)]^{2-/-/o/+}$, 100

S–S bond activation
Mechanistic study of palladium catalyzed S–S and Se–Se bonds addition to alkynes, 451
Steroids
Synthesis of enantiopure B-nor-steroids by multiple Pd-catalyzed transformations, 346
Substituted phenylalanines
Ligand-free palladium catalysed Heck reaction of methyl 2-acetamido acrylate and aryl bromides as key step in the synthesis of enantiopure substituted phenylalanines, 494
Sulfide cluster
Stepwise addition of CuBr at $[(dtc)_2Mo_2(S)_2(\mu\text{-}S)_2]$ (dtc=diethyldithiocarbamate): syntheses and crystal structures of two Mo/Cu/S clusters $[(dtc)_2Mo_2(\mu_3\text{-}S)(\mu\text{-}S)_3(CuBr)]$ and $[(dtc)_2Mo_2(\mu_3\text{-}S)_4(CuBr)_2]$, 197
Sulfoximine
Palladium-catalyzed intramolecular α-arylation of sulfoximines, 444
Supercritical carbon dioxide
Heck reactions with various types of palladium complex catalysts: application of multiphase catalysis and supercritical carbon dioxide, 211
Supported liquid phase catalyst
Heck reactions with various types of palladium complex catalysts: application of multiphase catalysis and supercritical carbon dioxide, 211
Suzuki coupling
Palladium-catalyzed Suzuki cross-coupling of aryl halides with aryl boronic acids in the presence of glucosamine-based phosphines, 384
Suzuki-coupling
Efficient coupling of heteroaryl halides with arylboronic acids in the presence of a palladium–tetraphosphine catalyst, 327
Suzuki-reaction
Synthesis of enantiopure B-nor-steroids by multiple Pd-catalyzed transformations, 346

TCNE
Electron transfer reactions of $(C_5R_5)_2(CO)_2Ti$ (R=H or Me) with TCNE or TCNQ: Spectroelectrochemical assignment of metal and ligand oxidation states in $[(C_5Me_5)_2(CO)Ti(TCNX)]^{2-/-/o/+}$, 100
TCNQ
Electron transfer reactions of $(C_5R_5)_2(CO)_2Ti$ (R=H or Me) with TCNE or TCNQ: Spectroelectrochemical assignment of metal and ligand oxidation states in $[(C_5Me_5)_2(CO)Ti(TCNX)]^{2-/-/o/+}$, 100
Terminal alkyne
Palladium-catalyzed carbonylative annulation of terminal alkynes: synthesis of coumarins and 2-quinolones, 425
Tetraphosphine
Efficient coupling of heteroaryl halides with arylboronic acids in the presence of a palladium–tetraphosphine catalyst, 327
Thiaplatinacycles
Insertion of Pt into CH and CS bonds of thiophene derivatives. The X-ray crystal structure of a thiaplatinacycle of 3,6-dimethylthieno[3,2-*b*]thiophene, 39
Thiol
Palladium catalyzed thiol cross-coupling of cystein derivatives with aryl and alkenyl halides, 322
Thiophene
Palladium-catalyzed coupling reactions towards the synthesis of well-defined thiophene-oligomers, 280
Tin
Organotin compounds bearing mesogenic sidechains: synthesis, X-ray structures and polymerisation chemistry, 46
Titanium compounds
Electron transfer reactions of $(C_5R_5)_2(CO)_2Ti$ (R=H or Me) with TCNE or TCNQ: Spectroelectrochemical assignment of metal and ligand oxidation states in $[(C_5Me_5)_2(CO)Ti(TCNX)]^{2-/-/o/+}$, 100
Transition metals
Reactivity control in palladium-catalyzed reactions: a personal account, 256
Triallyl(aryl)silane
Triallyl(aryl)silanes serve as a convenient agent for silicon-based cross-coupling reaction of aryl halides, 570
Triphenylsiloxy
Cyclic organohydroborate complexes of metallocenes: VIII. Triphenylsiloxy derivatives of Group IV organometallic systems, $Cp_2M(OSiPh_3)X$ (M=Ti, Zr, Hf; X=Cl, $\{(\mu\text{-}H)_2BC_8H_{14}\}$), 69
T_6 silsesquioxane cage
The reactions of dialkyl and diarylethoxysilanes with T_6 silsesquioxane cages: X-ray crystallographic studies of the mono-T_6D_1 and bis-T_6D_2 insertion ring expansion products, 1
Tsuji-Trost reaction
The silicon effect on the regioselectivity of the Tsuji-Trost reaction. Experimental and theoretical approaches, 337
Tungsten
Preparation and characterization of molybdenum and tungsten compounds with diazabutadiene ligands constructed from amino esters and glyoxal: Crystal structures of meso and C_2-symmetric isomers of $Mo(CO)_4$(dab-asp(OMe)-OMe), 178

Unsymmetrical
Novel unsymmetrical PCP′ pincer ligands and their palladium(II) complexes, 185

Vinylboronate
Palladium-catalyzed cross-coupling reaction of bis(pinacolato)diboron with vinyl triflates β-substituted by a carbonyl group: efficient synthesis of β-boryl-α,β-unsaturated carbonyl compounds and their synthetic utility, 284
Vinyl triflate
Palladium-catalyzed cross-coupling reaction of bis(pinacolato)diboron with vinyl triflates β-substituted by a carbonyl group: efficient synthesis of β-boryl-α,β-unsaturated carbonyl compounds and their synthetic utility, 284
Vinyl triflates
Pd–Ag catalyzed selective dicoupling of α-trialkylsilyl α,ω-diynes; the first one-pot synthesis of dienediynes, 420

Water-soluble
Palladium-catalyzed Suzuki cross-coupling of aryl halides with aryl boronic acids in the presence of glucosamine-based phosphines, 384

X-ray
Organotin compounds bearing mesogenic sidechains: synthesis, X-ray structures and polymerisation chemistry, 46
X-ray crystallography
X-ray crystallographic study of some pentacoordinated organogermanium compounds, 33
X-ray crystal structures
Synthesis and characterization of Zr(IV) and Y(III) complexes with monocyclopentadienyl ligands containing an additional site tethered by a coordinating 2,6-pyridine bridge. X-ray crystal structures of the zirconium complexes, 161
X-ray study
The reactions of dialkyl and diarylethoxysilanes with T_6 silses-

quioxane cages: X-ray crystallographic studies of the mono-T_6D_1 and bis-T_6D_2 insertion ring expansion products, 1

Zirconium
Stereoselective synthesis of 1,3-dienylstannanes by palladium catalyzed cross-coupling reactions, 462

Zirconium complexes
Synthesis and characterization of Zr(IV) and Y(III) complexes with monocyclopentadienyl ligands containing an additional site tethered by a coordinating 2,6-pyridine bridge. X-ray crystal structures of the zirconium complexes, 161